```
cccggccgacagccccgagacgacagcccggcgcgtcccggtccccacctccgaccaccgcca
gcgctccaggccccgcgctccccgctcgccgccaccgcgccctccgctccgcccgcagtgcca
accATGACCGCCGCCAGTATGGGCCCCGTCCGCGTCGCCTTCGTGGTCCTCCTC
    M  T  A  A  S  M  G  P  V  R  V  A  F  V  V  L  L

GCCCTCTGCAGCCGGCCGGCCGTCGGCCAGAACTGCAGCGGGCCGTGCCGGTGCCCGGAC
 A  L  C  S  R  P  A  V  G  Q  N  C  S  G  P  C  R  C  P  D
                   |->  exon 2

GAGCCGGCGCCGCGCTGCCCGGCGGGCGTGAGCCTCGTGCTGGACGGCTGCGGCTGCTGC
 E  P  A  P  R  C  P  A  G  V  S  L  V  L  D  G  C  G  C  C

CGCGTCTGCGCCAAGCAGCTGGGCGAGCTGTGCACCGAGCGCGACCCCTGCGACCCGCAC
 R  V  C  A  K  Q  L  G  E  L  C  T  E  R  D  P  C  D  P  H

AAGGGCCTCTTCTGTGACTTCGGCTCCCCGGCCAACCGCAAGATCGGCGTGTGCACCGCC
 K  G  L  F  C  D  F  G  S  P  A  N  R  K  I  G  V  C  T  A
                                                    |->

AAAGATGGTGCTCCCTGCATCTTCGGTGGTACGGTGTACCGCAGCGGAGAGTCCTTCCAG
 K  D  G  A  P  C  I  F  G  G  T  V  Y  R  S  G  E  S  F  Q
 exon 3

AGCAGCTGCAAGTACCAGTGCACGTGCCTGGACGGGGCGGTGGGCTGCATGCCCCTGTGC
 S  S  C  K  Y  Q  C  T  C  L  D  G  A  V  G  C  M  P  L  C

AGCATGGACGTTCGTCTGCCCAGCCCTGACTGCCCCTTCCCGAGGAGGGTCAAGCTGCCC
 S  M  D  V  R  L  P  S  P  D  C  P  F  P  R  R  V  K  L  P

GGGAAATGCTGCGAGGAGTGGGTGTGTGACGAGCCCAAGGACCAAACCGTGGTTGGGCCT
 G  K  C  C  E  E  W  V  C  D  E  P  K  D  Q  T  V  V  G  P

GCCCTCGCGGCTTACCGACTGGAAGACACGTTTGGCCCAGACCCAACTATGATTAGAGCC
 A  L  A  A  Y  R  L  E  D  T  F  G  P  D  P  T  M  I  R  A
          |->  exon 4

AACTGCCTGGTCCAGACCACAGAGTGGAGCGCCTGTTCCAAGACCTGTGGGATGGGCATC
 N  C  L  V  Q  T  T  E  W  S  A  C  S  K  T  C  G  M  G  I

TCCACCCGGGTTACCAATGACAACGCCTCCTGCAGGCTAGAGAAGCAGAGCCGCCTGTGC
 S  T  R  V  T  N  D  N  A  S  C  R  L  E  K  Q  S  R  L  C
```

FIG. 2A

```
ATGGTCAGGCCTTGCGAAGCTGACCTGGAAGAGAACATTAAGAAGGGCAAAAAGTGCATC
 M  V  R  P  C  E  A  D  L  E  E  N  I  K  K  G  K  K  C  I
                                          |->  exon 5

CGTACTCCCAAAATCTCCAAGCCTATCAAGTTTGAGCTTTCTGGCTGCACCAGCATGAAG
 R  T  P  K  I  S  K  P  I  K  F  E  L  S  G  C  T  S  M  K

ACATACCGAGCTAAATTCTGTGGAGTATGTACCGACGGCCGATGCTGCACCCCCCACAGA
 T  Y  R  A  K  F  C  G  V  C  T  D  G  R  C  C  T  P  H  R

ACCACCACCCTGCCGGTGGAGTTCAAGTGCCCTGACGGCGAGGTCATGAAGAAGAACATG
 T  T  T  L  P  V  E  F  K  C  P  D  G  E  V  M  K  K  N  M


ATGTTCATCAAGACCTGTGCCTGCCATTACAACTGTCCCGGAGACAATGACATCTTTGAA
 M  F  I  K  T  C  A  C  H  Y  N  C  P  G  D  N  D  I  F  E

TCGCTGTACTACAGGAAGATGTACGGAGACATGGCATGAagccagagagtgagagacatt
 S  L  Y  Y  R  K  M  Y  G  D  M  A  *

aactcattagactggaacttgaactgattcacatctcatttttccgtaaaaatgatttcagta
gcacaagttatttaaatctgtttttctaactgggggaaaagattcccacccaattcaaaacat
tgtgccatgtcaaacaaatagtctatcttccccagacactggtttgaagaatgttaagacttg
acagtggaactacattagtacacagcaccagaatgtatattaaggtgtggctttaggagcagt
gggagggtaccggcccggttagtatcatcagatcgactcttatacgagtaatatgcctgctat
ttgaagtgtaattgagaaggaaaattttagcgtgctcactgacctgcctgtagccccagtgac
agctaggatgtgcattctccagccatcaagagactgagtcaagttgttccttaagtcagaaca
gcagactcagctctgacattctgattcgaatgacactgttcaggaatcggaatcctgtcgatt
agactggacagcttgtggcaagtgaatttgcctgtaacaagccagatttttaaaatttatat
tgtaaatattgtgtgtgtgtgtgtgtgtatatatatatatatatgtacagttatctaagtt
aatttaaagttgtttgtgccttttttatttttgtttttaatgctttgatatttcaatgttagcc
tcaatttctgaacaccataggtagaatgtaaagcttgtctgatcgttcaaagcatgaaatgga
tacttatatggaaattctgctcagatagaatgacagtccgtcaaaacagattgtttgcaaagg
ggaggcatcagtgtcttggcaggctgatttctaggtaggaaatgtggtagctcacg
```

FIG. 2B

```
cccggccgacagccccgagacgacagcccggcgcgtcccggtccccacctccgaccaccgcca
gcgctccaggccccgcgctccccgctcgccgccaccgcgccctccgctccgcccgcagtgcca
accATGACCGCCGCCAGTATGGGCCCCGTCCGCGTCGCCTTCGTGGTCCTCCTC
    M  T  A  A  S  M  G  P  V  R  V  A  F  V  V  L  L

GCCCTCTGCAGCCGGCCGGCCGTCGGCCAGAACTGCAGCGGGCCGTGCCGGTGCCCGGAC
 A  L  C  S  R  P  A  V  G  Q  N  C  S  G  P  C  R  C  P  D
                   |->  exon 2

GAGCCGGCGCCGCGCTGCCCGGCGGGCGTGAGCCTCGTGCTGGACGGCTGCGGCTGCTGC
 E  P  A  P  R  C  P  A  G  V  S  L  V  L  D  G  C  G  C  C

CGCGTCTGCGCCAAGCAGCTGGGCGAGCTGTGCACCGAGCGCGACCCCTGCGACCCGCAC
 R  V  C  A  K  Q  L  G  E  L  C  T  E  R  D  P  C  D  P  H

AAGGGCCTCTTCTGTGACTTCGGCTCCCCGGCCAACCGCAAGATCGGCGTGTGCACCGCC
 K  G  L  F  C  D  F  G  S  P  A  N  R  K  I  G  V  C  T  A
                                                    |->

AAAGATGGTGCTCCCTGCATCTTCGGTGGTACGGTGTACCGCAGCGGAGAGTCCTTCCAG
 K  D  G  A  P  C  I  F  G  G  T  V  Y  R  S  G  E  S  F  Q
 exon 3

AGCAGCTGCAAGTACCAGTGCACGTGCCTGGACGGGGCGGTGGGCTGCATGCCCCTGTGC
 S  S  C  K  Y  Q  C  T  C  L  D  G  A  V  G  C  M  P  L  C

AGCATGGACGTTCGTCTGCCCAGCCCTGACTGCCCCTTCCCGAGGAGGGTCAAGCTGCCC
 S  M  D  V  R  L  P  S  P  D  C  P  F  P  R  R  V  K  L  P

GGGAAATGCTGCGAGGAGTGGGTGTGTGACGAGCCCAAGGACCAAACCGTGGTTGGGCCT
 G  K  C  C  E  E  W  V  C  D  E  P  K  D  Q  T  V  V  G  P

GCCCTCGCGGCTTACCGACTGGAAGACACGTTTGGCCCAGACCCAACTATGATTAGAGCC
 A  L  A  A  Y  R  L  E  D  T  F  G  P  D  P  T  M  I  R  A
          |->  exon 4

AACTGCCTGGTCCAGACCACAGAGTGGAGCGCCTGTTCCAAGACCTGTGGGATGGGCATC
 N  C  L  V  Q  T  T  E  W  S  A  C  S  K  T  C  G  M  G  I

TCCACCCGGGTTACCAATGACAACGCCTCCTGCAGGCTAGAGAAGCAGAGCCGCCTGTGC
 S  T  R  V  T  N  D  N  A  S  C  R  L  E  K  Q  S  R  L  C
```

FIG. 2A

```
ATGGTCAGGCCTTGCGAAGCTGACCTGGAAGAGAACATTAAGAAGGGCAAAAAGTGCATC
 M  V  R  P  C  E  A  D  L  E  E  N  I  K  K  G  K  K  C  I
                                          |->  exon 5

CGTACTCCCAAAATCTCCAAGCCTATCAAGTTTGAGCTTTCTGGCTGCACCAGCATGAAG
 R  T  P  K  I  S  K  P  I  K  F  E  L  S  G  C  T  S  M  K

ACATACCGAGCTAAATTCTGTGGAGTATGTACCGACGGCCGATGCTGCACCCCCCACAGA
 T  Y  R  A  K  F  C  G  V  C  T  D  G  R  C  C  T  P  H  R

ACCACCACCCTGCCGGTGGAGTTCAAGTGCCCTGACGGCGAGGTCATGAAGAAGAACATG
 T  T  T  L  P  V  E  F  K  C  P  D  G  E  V  M  K  K  N  M


ATGTTCATCAAGACCTGTGCCTGCCATTACAACTGTCCCGGAGACAATGACATCTTTGAA
 M  F  I  K  T  C  A  C  H  Y  N  C  P  G  D  N  D  I  F  E

TCGCTGTACTACAGGAAGATGTACGGAGACATGGCATGAagccagagagtgagagacatt
 S  L  Y  Y  R  K  M  Y  G  D  M  A  *

aactcattagactggaacttgaactgattcacatctcatttttccgtaaaaatgatttcagta
gcacaagttatttaaatctgtttttctaactgggggaaaagattcccacccaattcaaaacat
tgtgccatgtcaaacaaatagtctatcttccccagacactggtttgaagaatgttaagacttg
acagtggaactacattagtacacagcaccagaatgtatattaaggtgtggctttaggagcagt
gggagggtaccggcccggttagtatcatcagatcgactcttatacgagtaatatgcctgctat
ttgaagtgtaattgagaaggaaaatttagcgtgctcactgacctgcctgtagccccagtgac
agctaggatgtgcattctccagccatcaagagactgagtcaagttgttccttaagtcagaaca
gcagactcagctctgacattctgattcgaatgacactgttcaggaatcggaatcctgtcgatt
agactggacagcttgtggcaagtgaatttgcctgtaacaagccagatttttaaaatttatat
tgtaaatattgtgtgtgtgtgtgtgtgtatatatatatatatatgtacagttatctaagtt
aatttaaagttgtttgtgccttttttatttttgtttttaatgctttgatatttcaatgttagcc
tcaatttctgaacaccataggtagaatgtaaagcttgtctgatcgttcaaagcatgaaatgga
tacttatatggaaattctgctcagatagaatgacagtccgtcaaaacagattgtttgcaaagg
ggaggcatcagtgtcttggcaggctgatttctaggtaggaaatgtggtagctcacg
```

FIG. 2-2B